LIMA LOCOMOTIVE WORKS
INCORPORATED

LIMA, OHIO, U. S. A.

GEARED LOCOMOTIVE

Class 70-3 TRUCK-SPECIAL **Dept.** DRAWING ROOM

406
(3244)

CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE
406	3244	

replace 10-19-[illegible]

This order [illegible]

406.
70-3
3244.

FORM LED 60

406
(3244)
70-3

ADDITIONS AND CHANGES

ADDITIONS

DATE	Page	ITEMS	Check

ADDITIONS

DATE	Page	ITEMS	Check

CHANGES

DATE	Page	ITEMS	Check

859
391

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
	1	~~ASH~~ PAN	1	103A5022		—	—	—	—	—
	2	" Pan Material Bill	1 SET	10MO5031		—	—	—	—	—
	3	" " Hopper								
	4	" " Slide								
	5	" " Door Frame								
	6	" " Slide Frame								
	7	" " Door Links								
	8	" " Damper Rigging								
	9	" " " Bell Crank	1	103A5022		10A5023				
	10	" " " " " Fulcrum	1	"		119F145				
	11	" " " Hinge	4	5½" x 2" x 7½"	HALF BUTT	—				
	12	" " " " Lug	—							
	13	" " " " Bar	—							
	14	" " " Lift—Front	1	103A5022		10B5024				
	15	" " " " —Rear	1	"		10A5024				
	16	" " " Lug	1	"		119F13				
	17	" " " "	1	"		119F306				
	18	" " " Rod Jaw	1	"		119F90				
	19	" " " " "	1	"		119F99				
	20	" " Netting Frames								
	21	" " Slide Rigging								
	22	" " " Rod								
	23	" " ~~Jaw~~ CLEANING DOOR CHAIN	2	103A5022		87-B-7	—	—	—	—
	24	" " Shaft Bearing	—							
	25	" " Cleaning Door Hinge	4	4½" x 1¾" x 6"	HALF BUTT					
	26	" " ~~Bell Crank Bracket~~ LOCK PLATE	2	103A5022	¼" x 3¼" x 4" PLATE					
	27	" " DAMPER RIGGIN PIN	1	⅝" RIV. 1½" LONG	DRILL TO SUIT ERECT. SHOP					
	28	" " " " "	1	⅝" " 1¾" "						
	29	" " " " "	2	⅝" " 2" "						
	30	GROUP 11—AXLES								
	31	AXLE	6	112B5015		112B5015	—	—	—	—
	32	"	—							
	33	GROUP 12—BELL								
	34	BELL	1	12511		—	—	—	12-25	—
	35	" Frame	1	12541		—	12-36	—	—	—
	36	" " Base	—							
	37	" Yoke	1	12512 LINE 1			12-27	—		
	38	" " Nut	1	122A5008			12-40			
	39	" " Pin	1	12541	BAR STOCK		—			
	40	" Crank	1	"			12-37			
	41	" Tongue	1	122A5006			—			12-35
	42	" " Fulcrum	1	122A5007		122A5007	—			—
	43	" Ringer Bracket	—							
	44	" Rope ~~Details~~ SCREW EYE	3	TO SUIT ERECT. SHOP.	PURCHASED		—			
	45	" " Sheave	2	122A5019			12-21			
	46	" " " Chair	—1	122A5022			12-20			
	47	" " " Frame	1	122A5020			12-18			
	48	" " Thimble	1	122A4	BAR STOCK		—			
	49	" " " Washer	1	"			—			
	50	" Ringer								
	51									
	52	GROUP 13—BOILER								
	53	Boiler Plan	1	139M5001						
	54	" Sections	—							
	55	" Material Bill	1 SET	13MO5026						
	56	" Bracing List	1 "	139M5001						
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
	1	Boiler Brace Rod Ends	6	11762 SET 2		117 F 202				
	2	" " " "	6	310 D 208		310 S 150				
	3	" " " "	16	11754 SET 12		117 F 201				
	4	" " " "	—							
	5	" " " "	—							
	6	" " " Lugs	2	11762 SET 10		11762 SET 10				
	7	" " " "	2	310 D 263		310 S 112				
	8	" " " "	6	142 A 5001		14 A 5001				
	9	" " " "	—							
	10	" " " Jaws	6	310 D 164		310 S 105				
	11	" " " "	22	310 D 148		310 S 64				
	12	" " " "	6	142 A 5001		310 S 266				
	13	" " " "	2	310 D 263		310 S 109				
	14	" " " "								
	15	" " " "								
	16	" Sling Stay								
	17	" " "								
	18	" Throat Brace	6	11766 LINE 1		117-F-215	—	—	—	—
	19	" " "								
	20	" Crown Bars								
	21	" " Roof Irons								
	22	" Stay Bolt	141	4535 LINE 1		4535 LINE 1				
	23	" " "	464	" " 2		" " 2				
	24	" Radial Stay	120	11721 " 2		11721 LINE 2				
	25	" " "	102	11745		11745				
	26	" " "	16	1⅛" TATES-STYLE D						
	27	" ~~Cross Stay~~ " SLEEVES	16	" " H		PURCHASED				
	28	" ~~Tee Bar~~ " CAPS	16	" " D						
	29	" TEE BAR	2	22½" LONG						
	30	" " "	2	20" "						
	31	" " "	2	13" "		6"×1"×5¼"×1¼"				
	32	" " "	2	6½" "						
	33	" " "	1	36" "						
	34	" Mud Ring								
	35	" Tube Sheet Ring	—							
	36	" " " Studs	—							
	37	" Smoke Box Ring	1	139 M 5001		14 D 5000	—	—	—	—
	38	" " " "	—							
	39	" Tube (small)	190	2" O.D. #12-B.W.G-11'-1" LONG.			—	—	—	—
	40	" Flue (large)	—							
	41	" Combustion Tubes	—							
	42	" Tube Setting	1 SET	11632 STYLE 4			—	—	—	—
	43	" Flue "	—							
	44	" Test Plate	1	420 D 449			—	—	—	—
	45									
	46	**GROUP 15—BOLTS AND NUTS**								
	47									
	48	**GROUP 18—BRACKETS**								
	49	Air Gauge Bracket	1	182 B 5073			—	18-27	—	—
	50	Steam Gauge Bracket	—							
	51	Bottom Bracket	1	184 E 5003						
	52	" " Caps	4	8730 SET 3					18-28	
	53	" " Bearing—Top	4	182 A 5038					18-32	
	54	" " " —Bottom	4	182 A 5034			18-62			
	55	" " " Wedge	4	182 A 5015			18-61			
	56	" " Wedge Screw	4	182 A 5022			18-31			
	57	" " " " Nut	4	"	BAR STOCK	182 A 5022 —				
	58	" " " " Cap	4	182 B 5075		182 B 5075 —				
	59	Steam Bracket	1	184 B 5001			18-19-U		—	—
	60	" " —Back	+							
	61	" " Brace	1	182 A 5071		182 A 5071	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE EQUIPMENT								
	1	BRAKE CYLINDER	1	203K5006		—	20-118			
	2	" " Brackets	1	202A5185		202A5185				
	3	" " Head	2	202A5094		—	20-60			
	4	" " Brackets	1	202B5185		202B5185				
	5	" " Stuff. Box Gland	2	202A5088		—	20-65			
	6	" " Bracket Block	1	202A5185	1¼" x 5¼" x 6"	202A5185				
	7	" Piston	2	202A5113		—	20-47			
	8	" " Cyl. Bracket Block	1	202B5185	1¼" x 5¼" x 6"	202B5185	—			
	9	" " Rings, Mat'l For	4	653D5002	Pot Pattern	—	65-25			
	10	" " " " "	2	3176 Line 4	" "	—	65-107			
	11	" " " " "	—		" "					
	12	" " " " "	—		" "					
	13	" " Rod—Front	1	202L5029	44"	202L5029				
	14	" " " —Rear	1	202M5029	46"	202M5029				
	15	" " "	2	202A5169		202A5169				
	16	" " " Jaw	—							
	17	" Hollow Piston Rod	1	24" x 2 5/16 DIA.	Turn From	—	—	—	—	—
	18	" " " "	1	30" x 2 5/16 "	2" Pipe	—	—	—	—	—
	19	" Strut	—							
	20	" "								
	21	" Reservoir Blocks								
	22	" " Support	2	202B5025		—	—	20-111		
	23	" Equalizing Reservoir Blocks	2	To Suit Erect. Shop	Wood	—				
	24	" " " " Support	2	" " " "		To Suit Erect. Shop				
	25	" " " Strap	2	202B5025		134F1210				
	26	" Pump Bracket	1	202A5020		—		20-613		
	27	" " "	—							
	28	" Cyl. Lever Fulcrum	—							
	29	" Equipment	1 SET	20M05007-C						
	30	" Valve	1	203A5010	#5	—	—			
	31	" " Base	1	202A5138			20-38			
	32	" " Cap	1	202A5137			20-39			
	33	" " Slide Valve	1	202A5133			20-40			
	34	" " Stem	1	202A5136	Bar Stock					20-44
	35	" " Handle	1	202A5139						
	36	" " " Latch	1	202A5134						
	37	" " Stuffing Box	1	202A5132	Stick Brass					
	38	" " " " Nut	1	"	" "					
	39	" " " " Follower	1	"	" "					
	40	" " Bracket	1	To Suit Erect. Shop		To Suit Erect. Shop				
	41	" " " Brace	1	" " " "		" " " "				
	42	" Distributing Valve Bracket	2	X		134F862	—			
	43	" Relief Valve	3	202A5140		—	20-71			
	44	" " " —Top	3	"	Stick Brass		—			
	45	" " " —Base	3	"			20-73			
	46	" —Frame Body								
	47	" Lever—Frame		Same end		20T5006				
	48	" " "		to have new line.		20S5006				
	49	" " "				20N5006				
	50	" " "				20R5006				
	51	" " "				20P5006				
	52	" " "				20F5065				
	53	" " Fulcrum—Frame				20A5096				
	54	" " " "								
	55	" " " "								
	56	" " Guides "				20B5092				
	57	" " " "				20C5092				
	58	" " " "				20D5092				
	59	" " " "				20C5090				
	60	" " " "								
	61	" Rod Pins Truck	6	202N5016		202N5016				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE (Cont.)								
	1	Brake Cylinder Bracket—Frame			12"-30# C-60" LONG	—				
	2	" " " "			12"-30# C-60" "	—				
	3	" Rods "				20 X 5003				
	4	" " "				20 P 5018				
	5	" " "				20 R 5018				
	6	" " "				20 S 5018				
	7	" " "				2½" x 2½" x 12				
	8	" " "				5/8" x 2½" x 13½"				
	9	" TRUCK	1		LENGTH TO SUIT	134 F 163				
	10	" Beam— Truck	6	A-9809 LINE 1		—				
	11	" " Fulcrum "	6	202 A 5163		—		20-87		
	12	" " Safety Chain "	4 8	—		20 X 5059 20 T 5059				
	13	" HANGER ~~Loop~~ LUG "	4 16	202 A 5002		—		20-494		
	14	" Hanger "	8	938 B 5002		20 C 5027 20 N 5027				
	15	" " Lug "	8	202 A 5072				20-632		
	16	" Heads "	12	203 B 5008				20-79		
	17	" Shoes "	12	202 A 5104	(S) PAT. 20-8 PURCHASED					
	18	" Lever "	1	938 B 5002		98 F 161				
	19	" " "	1	"		98 F 162				
	20	" " "	1	"		98 F 163				
	21	" " "	1	"		98 F 503				
	22	" " "	1	"		20 A 5056				
	23	" " "	1	"		20 B 5056				
	24	" Rod "	2	202 D 5036		202 D 5036				
	25	" " "	1	202 E 5036		202 E 5036				
	26	" " "	4	202 A 5058		202 A 5058				
	27	" " "	3	938 B 5002		98 F 152				
	28	Truck Bolster Lever Fulcrum	2	"		98 F 501				
	29	" " Stop Lug	4	"		5/8" x 2½" x 11"				
	30	" BRAKE CARRIERS	4	"		93 A 5004				
	31	**GROUP 21—BUMPERS**								
	32	End Timber Arrangement—Front	1	214 A 5012	to be checked with B.&B. & used on Lore. 304					
	33	" " " —Rear	1	B-10340						
	34	" " Channels—Front								
	35	" " " —Rear								
	36	" " Drawhead Blocks								
	37	Push Pole Pocket								
	38									
	39	**GROUP 22—CAB**								
	40	Cab	1	B-11108 LINE 2	SIDE ENT.					
	41	" Material Bill								
	42									
	43									
	44	**GROUP 23—CAB DETAILS**								
	45	Cab Arm Rest								
	46	" Joint Plate								
	47	" Strap								
	48	" Saddle Angle								
	49	" " Plate								
	50	" Sash Fixture								
	51	" Storm Window								
	52	" " "								
	53	" " " Adjusting Bar								
	54	" " " " Plate								
	55	" Awning								
	56	" Curtain								
	57	" " Rod								
	58	" Door Fixture								
	59	" " " Clamp								
	60	" " " " Screw								
	61	" " " " Slide Bar								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS (Cont.)								
	1	Cab Door Fixture Rod								
	2	" Ventilator								
	3	" " Fixture								
	4	" " Handle								
	5	" " " Hinge								
	6	" " " Latch								
	7	" " Rod								
	8	" Seat—Right								
	9	" " —Left								
	10	" " Back Support								
	11	" " Cushion								
	12	" " Post								
	13	" " Hinge								
	14	" " Rod								
	15	" Tool Box								
	16									
	17									
	18									
	19									
	20	**GROUP 26—COCK AND VALVES**								
	21	Air Sander Valve								
	22									
	23	Angle Valve								
	24	" " Cap								
	25	" " Stem								
	26	" " Gland								
	27	" " Nut								
	28									
	29	Ash Pan Cock								
	30									
	31	Bell Ringer Valve								
	32									
	33	Blower Valve								
	34	" " Cap								
	35	" " Stem								
	36	" " Gland								
	37	" " Nut								
	38	Blow Off Cock								
	39	" " " Cap								
	40	" " " Plug								
	41	" " " Nut								
	42	" " " Washer								
	43	" " Extension								
	44	Blow-off Valve								
	45	Injector Starting Valve								
	46	" " " Cap								
	47	" " " Stem								
	48	" " " Gland								
	49	" " " Nut								
	50	Brake Stop Valve—Steam								
	51	" " " —Air								
	52	" " " —Inter.								
	53									
	54	Cinder Swipe Valve								
	55									
	56	Cylinder Cock								
	57	" " Nut								
	58	" " Shank								
	59	" " Valve								
	60	" " Cap								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Drip Valve Brake Exhaust Drain								
	2	" " Check Pipe "								
	3	" " Exhaust " "								
	4	" " Steam Chest "								
	5	" " Water Gauge "								
	6									
	7	Drip Cock—Brake Exhaust Drain								
	8	" " — " " " —Air								
	9	" " —Check Pipe Drain								
	10	" " —Fuel Sprinkler Drain								
	11	" " —Siphon Drain								
	12	" " —Oil Heater Drain								
	13	Generator Valve								
	14	" " Cap								
	15	" " Stem								
	16	" " Gland								
	17	" " Nut								
	18									
	19	Feed Cock								
	20	Heater Valve								
	21									
	22	Lubricator Valve								
	23	" " Extension								
	24	Oil Burner Valves								
	25	" Heater "								
	26	" Tank Blow-Back Valve								
	27	" " Heater Valve								
	28	Oil Cock								
	29	" " Cap								
	30	" " Plug								
	31	" " Spring								
	32	" " Washer								
	33									
	34	Plug Cock—Injector Check								
	35	" " Cap								
	36	" " Plug								
	37	" " Nut								
	38	" " Washer								
	39									
	40	Port Cock								
	41									
	42	Siphon Valve								
	43									
	44	Sprinkler Valve								
	45	" " Cap								
	46	" " Stem								
	47	" " Gland								
	48	" " Nut								
	49									
	50									
	51	Steam Gauge Cock								
	52									
	53	Steam Gauge Cock Extension								
	54									
	55	Tire Sprinkler Valve								
	56									
	57	Through Valve								
	58	" " Cap								
	59	" " Stem								
	60	" " Gland								
	61	" " Nut								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)								
	1	Gauge Cock	3	3/4" NATHAN TYPE 272A5001 EXCEPT 3/4" P. THD.			—	—	—	—
	2	" " Valve								
	3	" " Cap								
	4	" " Stem								
	5	" " Gland								
	6	" " Nut								
	7									
	8									
	9	Gauge Cock Extension	—							
	10	" " Dripper	1	272A5006		—	27-38	—	—	—
	11									
	12									
	13	WATER GAUGE	1	#9 REFLEX						
	14	" " Upper Fitting	1	3/4" NATHAN						
	15	" " " " Cap								
	16	" " " " Valve								
	17	" " " " Stem								
	18	" " " " Gland								
	19	" " " " Nut								
	20	" " " " Washer								
	21	" " Lower Fitting	1	3/4" NATHAN	THD. 3/4" P. SIZE LENGTH TO SUIT ERECT. SHOP.					
	22	" " " " Cap								
	23	" " " " Valve								
	24	" " " " Stem								
	25	" " " " Gland								
	26	" " " " Nut								
	27	" " " " Washer								
	28	" " Cock Elbow	1	272B5003		—	—	—	27-8	—
	29	" " Lamp Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—		—
	30	" " Marker "								
	31	" " " " Clamp								
	32	" " "								
	33	Water Gauge Extension								
	34	Water Gauge Cock								
	35									
	36	GROUP 28—COCK RIGGING								
	37									
	38	Blow-off Cock Rigging	1 SET	A-11405			—	—	—	—
	39	" " " Handle	1	732A5027			73-6	—	—	—
	40	" " " Rod	1	3/8" PIPE TO SUIT ERECT. SHOP			—	—	—	—
	41	" " " "	—							
	42	" " " " Jaw	1	A-11405		114-F-4	—	—	—	—
	43	" " " Lever	—							
	44	" " " " Fulcrum	—							
	45									
	46	Cylinder Cock Rigging	1 SET	7320		—	—	—	—	—
	47	" " Eye Bolt	—							
	48	" " Hand Lever	1	7322		111-F-10				
	49	" " " " Fulcrum	1	"		73-F-3				
	50	" " Rod	1	7320	1/4" PIPE	FIN. SIZES 1/4 x 7/8 x 38"				
	51	" " " Lever	1	263A5001						
	52	" " " Jaws	2	A-11149 LINE 3	BAR STOCK	—				
	53	" " Valve Lever	—							
	54	" " " " Connection	—							
	55	GROUP 30—CROSSHEAD								
	56	Crosshead	3	302B5017			—	30-15		
	57	" Shoe	6	302A5016		FIN. SIZES 8 3/4 x 3" DIA.	30-16			
	58	" " Bolts	6	302B5017						
	59	" Pin	3	7812 SET 6		FIN. SIZES 1/2 x 1 1/2 x 5 1/2"				
	60	" Key	3	302A5032	CHROME VANADIUM					
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER								
	1	CYLINDER	2 R.	313 B 5000		〃	31-11	—	〃	〃
	2	"	1 L.	〃		〃	31-12	—	〃	〃
	3	" Frame	2	313 D 5001		〃	—	31-54	〃	〃
	4	" "	1	〃		〃	—	31-54	〃	〃
	5	**GROUP 32—CYLINDER DETAILS**								
	6	Cylinder Head	3	322 A 5032		—	32-36	—	—	—
	7	" " Casing	3	322 A 5036	PRESSED STEEL	—	—	—	—	—
	8									
	9									
	10	Steam Chest Cover	3	322 A 5017		—	32-57	—	—	—
	11	" " Casing	3	7416 SET 8	PRESSED STEEL	—	—	—	—	—
	12	Valve Chamber Head								
	13	" " "								
	14	" " Cover								
	15	" " Bushing	—							
	16									
	17									
	18	**GROUP 34—CYL BY-PASS & RELIEF VAL**								
	19	Steam Chest Relief Valve	3	7432 LINE 1	STICK BRASS	〃	〃	〃	—	〃
	20	" " " " Base	3	〃		〃	〃	〃	34-3	〃
	21	" " " " Cap	3	〃		〃	〃	〃	34-2	〃
	22									
	23									
	24									
	25									
	26	**GROUP 35—DIE WORK**								
	27									
	28									
	29									
	30									
	31									
	32									
	33	**GROUP 36—DOME**								
	34	Dome	1	139 M 5001		〃	〃	〃	〃	〃
	35	" Flange	1	362 B 5001		〃	〃	〃	〃	〃
	36	" " Radius	—	32 3¼		〃	〃	〃	〃	〃
	37	" Cap	1	362 A 5011		〃	〃	〃	〃	〃
	38	" Ring	1	362 B 5010		〃	〃	〃	〃	〃
	39	" Casing—~~Base~~	1	363 A 5015	PRESSED STEEL	〃	〃	〃	〃	〃
	40	" " —Shell	—							
	41	" " —Top	—							
	42	" Flow Bowl	1	363 A 5015	SHEET STEEL	—	—	—	—	—
	43	" " " Bracket	3	〃		120-F-4	—	—	—	—
	44									
	45									
	46									
	47	**GROUP 37—DRAWGEAR F & B**								
	48	Coupler F.	1	372 A 5002		〃	〃	37-14	〃	〃
	49	" B.	1	〃		〃	〃	37-14	〃	〃
	50	" Knuckles	2	372 J 5000		〃	〃	37-10	〃	〃
	51	" "	1	372 D 5000		〃	〃	37-6	〃	〃
	52	" Lock								
	53	" " Lifter								
	54	" Link								
	55	" Lever								
	56	Uncoupling Shaft								
	57	" "								
	58	" " Bracket								
	59	" " "								
	60	Buffer								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 37—DRAWGEAR (Cont.)								
	1	Drawhead								
	2	Draw Gear Brace								
	3	" " "								
	4	" " " Foot								
	5	" " " Foot								
	6	" " Back								
	7	" " Shims								
	8	" " Pin								
	9	" " Frame—Front								
	10	" " " "								
	11	" " " —Rear								
	12	" " " "								
	13	" " Tie Plate								
	14	" " Friction Plate								
	15	" " Sliding Bar								
	16	" " " "								
	17	" " Connecting Rod								
	18	" " " " Pin								
	19	" " Yoke								
	20	" " " Block								
	21	" " " Followers								
	22	" " " "								
	23	" " " Binder Plate								
	24	" " Carrier Link								
	25	" " " Pin								
	26	" " " Plate								
	27	" Bar Guide								
	28	" " Pin								
	29	" " Carry Iron								
	30	" " " " Bolt Liner								
	31	" Pin—Front								
	32	" " —Back								
	33	Shackle Bar								
	34	" " Key								
	35	" " Gibs								
	36	" " Brace								
	37	" " " Pad								
	38	" " " Pin								
	39	" " Pin								
	40	Safety Link								
	41	" " Pins								
	42									
	43	GROUP 39—ECCENTRICS								
	44	ECCENTRIC—No. 1 Cylinder	1	392 A 5019			39-66			
	45	" No. 3 Cylinder	1	"			39-66			
	46	" No. 2 Cylinder—Top	1	392 A 5068			39-391			
	47	" No. 2 Cylinder—Bot.	1	"			39-392			
	48	" Key	2	"	CHROME VANADIUM MACH. STEEL					
	49	" Stud	2	"						
	50	ECCENTRIC STRAP Top	6	392 A 5029			39-34			
	51	" " Bottom	6	"			39-35			
	52	" " Bolts	12	"						
	53	" " Liner								
	54	" " Filler								
	55									
	56	ECCENTRIC ROD	3	392 A 5084		392 A 5084				
	57	" "	3	392 B 5084		392 B 5084				
	58	" " Pin	3	393 F 5000						
	59	" " "	3	393 E 5000						
	60	" " Bolts	6	8509 SET 7						
	61	" " "	6	" " 8						

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 42—ERECTING CARDS								
	1	ERECTING PLAN—Elevation								
	2	GROUP 43—ERECTING CARDS								
	3	ERECTING PLAN—Sections								
	4									
	5	GROUP 44—EXHAUST PIPE & NOZZLES								
	6	EXHAUST Drop Pipe	1	442B5052		—	44-552	—	—	—
	7	" " Pipe Flange	1	442A5056			44-69			
	8	" Nozzle	1	442A5062			44-68			
	9	" "	1	442B5062			44-113			
	10	" "	1	442C5062			44-114			
	11	" " Tip	—							
	12	" Extension	1	442A5051		—	44-70	—	—	—
	13	" Gland	—							
	14	" Reducer	1	442A5046		—	44-542	—	—	—
	15	" " Gland	1	442A5018			44-533			
	16	" Pipe Elbow	1	442A5016			44-532			
	17	" " Joint Ring	1	792K5029			79-22			
	18	" "	1	442C5015	6" W.I. PIPE		—			
	19	" " Nipple	1	〃	〃		—			
	20	GROUP 45—FIREDOOR AND FIREBRICK								
	21	FIRE BRICK								
	22	" " Arch Tube								
	23	" " " " Setting								
	24	" DOOR ASSEMBLY	1	452A5013		—				
	25	FIRE DOOR	1	452A5004		—				
	26	" " Frame	1	452A5001						
	27	" " Liner	1	452A5002						
	28	" " Latch	1	452A5005		127F4				
	29	" " " Handle	1	〃		127F14				
	30	" " " Guide	1	452A5003		452A5003				
	31	" " Shield	—							
	32	" " ~~Damper~~ HINGE PIN	1	—		45A7	—	—	—	—
	33	" " " Bearing	—							
	34	" " " "								
	35	" " " Handle								
	36	" " " Thumb Nuts								
	37	" " Peep Hole Cover								
	38									
	39									
	40									
	41	GROUP 48—FRAME AND DETAILS								
	42	FRAME								
	43	" Boiler Saddle	1	487A5098	RAD. TAPERS	—	48-90	—	—	—
	44	" " "	1	〃	FROM 25¼" TO 25¾"	—	48-91	—	—	—
	45	" " Pad Clamp								
	46	" " " "								
	47	" " " "								
	48	" " " "								
	49	" Bolster Fill Blocks								
	50	" Centre Plate	2	482B5088						
	51	" Side Bearing—Right				2⅛" × 7" × 14"		48-684		
	52	" " " —Left				2⅛" × 5" × 14				
	53	" Spreader								
	54	" Truss Pad								
	55	" " "								
	56	" " Head								
	57	" " Post Head								
	58	" " " Socket								
	59	" " Rod Washers								
	60	〃 LINER PLATES ~~Main Truss Rod—Right~~ 〃			PLATE	1"×13"×11'-0"				
	61	" " " ~~—Left~~			〃	1"×7"×9'-8"				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 48—FRAME & DETAILS (Cont.)								
	1	~~Truss Rod Ends~~ FRAME LINER	1		3/4" x 3" x 8 1/2"	2	2	2	2	2
	2	" " " " "	1		1/2" x 7" x 27"					
	3	" " " " "	1		1/2" x 7" x 22"					
	4	" " "	7							
	5	" " Columns								
	6	" " "								
	7	" Post Guides								
	8	" " "								
	9	Frame Brace TO END TIMBER	1		—	486 5001	7	7	—	7
	10	" " PLATE	1		1/2" x 27 5/8" x 50"	2				
	11	" " "	1		1/2" x 13 1/4" x 50"					
	12	" " "	1		1/2" x 27 5/8" x 60"					
	13	" " "	1		1/2" x 13 1/4" x 60"					
	14	" ANGLE	2			3/4" x 4" x 6" - 11'-0" LONG.	7	7	7	7
	15	Frame Pit Irons	2			110F350				
	16	" " "	1			48D5013				
	17	" " "	—							
	18	" ~~ANGLE~~	1			1/2" x 3" x 4" - 9 1/2"	7	—	7	7
	19	" End Casting	1			—		48-535		
	20	" ANGLE ~~Timber Brace~~	2			1/2" x 3 1/2" x 3 1/2" x 6"				
	21	" Angle	8			5/8" x 6" x 6" - 9 1/2" LONG.				
	22	" "	8			5/8" x 3 1/2" x 6" - 9 1/2" "				
	23	" "	2			5/8" x 6" x 6" - 23 3/4" "				
	24	" "	2			5/8" x 6" x 6" - 19 3/4" "				
	25	" "	3			1/2" x 3" x 3" - 9 1/2" "				
	26	" "	4			5/8" x 6" x 6" - 5" "				
	27	" Smoke Box Brace Pad	2	13007 SET 1		—	48-15	—	—	—
	28	EXPANSION PLATE	1	483A5047	PLATE	—	7	—	7	7
	29	" " Angle	1 SET	"		483A5047		—		
	30	FURNACE BEARER—Front	1	483A5046		7	7	48-683	7	7
	31	" " —Rear	1	482A5146				48-682		
	32	" " Plate	1	482A5149	PLATE			48-663		
	33	" " Fill Blocks	2	482A5134				—		
	34	Boiler Pad—Right	—							
	35	" " —Left	—							
	36									
	37									
	38	GROUP 49—GAUGES, TEMPLATES & JIGS	—							
	39									
	40									
	41									
	42	GROUP 50—GUIDES & ATTACHMENTS								
	43	Guide	6	502A5010		—	50-16	—	—	—
	44									
	45									
	46	GROUP 51—GRATE ARRANGEMENT								
	47	Grate Arrangement	1	514A5000		—	—	—	—	—
	48	GROUP 52—GRATE DETAILS								
	49									
	50									
	51	Grate Bars	7	A-11845 SET 2		—	52-46	—	—	—
	52	" "	7							
	53	" "								
	54	" Center Rail								
	55	" Side "	1	522A5071		—	52-109	—	—	—
	56	" " "	1	"		—	52-110	—	—	—
	57	" ~~Cover Plate~~								
	58	" " "								
	59	" Shaker Pins	2	5/8" Riv. 2 1/4" Long	DRILL TO SUIT ERECT. SHOP.	7	7	7	7	7
	60	" " "	4	3/4" " 2" "						
	61	" " "	4	3/4" " 3" "						

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 52—GRATE DETAILS (Cont.)								
	1	Grate Dead Plate	—							
	2	" " "	—							
	3	" Drop "	1	522A5050		~~522A5111~~	52-1	Z	Z	Z
	4	" Dump Shaft	1	522A5111		522A5111	—			
	5	" " " Bearing	2	522B5092		—	52-1200			
	6	" " " "	—							
	7	" " " Links	2	522A5111		118F547				
	8	" " " Lever	1	15020		118F74				
	9	" " Lever	—							
	10	" Shaker Shaft Bracket	1	522A5109		—	52-108			
	11	" " " "	1	"		—	52-107			
	12	" " Lever	—							
	13	" " Shaft	1	522P5008		522P5008				
	14	" " "	—							
	15	" " " Lever	1	522H5009		52C5012				
	16	" " " "	—							
	17	" " " Hand Lever	1	11818		118F110				
	18	" " " " "	—							
	19	" " Lever Connection	1	514A5000		118F149				
	20	" " " "	—							
	21	" " Connection Bar	1	522A5110		522A5110				
	22	" " " "								
	23	**GROUP 53—H'NDRAIL & STEPS (En.&Tr)**								
	24	HAND RAIL								
	25	" " Bracket								
	26	" " Balls								
	27	" " Columns								
	28	" " "								
	29	" " "								
	30	" " "								
	31	" " " Blocks								
	32	" " " "								
	33	" " Flanges								
	34	Cab Handle—Right								
	35	" " —Left								
	36	Coal Bunk Handle—Right								
	37	" " " —Left								
	38	Tank Handle								
	39	End Timber Handle								
	40	" " "								
	41	" " " Bracket								
	42	" " " "								
	43									
	44									
	45	Bottom Bracket Step								
	46	Cab Step								
	47	" "								
	48	" "								
	49	" "								
	50	" " Brace								
	51	" " "								
	52	Cylinder Step								
	53	" Hood Step								
	54	Generator Step								
	55	End Timber Step—Front								
	56	" " " —Back								
	57	Headlight Step								
	58	Pilot Step								
	59	" "								
	60	Sand Box Step								
	61	" " " Bracket								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.								
	1	Flag Socket	—							
	2	" "	—							
	3	Headlight { ~~Oil~~ Electric }	2	16" SUNBEAM	PURCHASED WITH TURBO GENERATOR		—			
	4	Headlight Bracket	1 PR.	5353 SET 11	PLATE		—			
	5	" Columns	—							
	6	" Shelf—Front	1	10020	PLATE					
	7	" " —Rear	1	1/4 x 18" x 24"						
	8	Generator Bracket	2	10003		100F3				
	9	" Shelf	1	"	1/4" x 15" x 18" PLATE					
	10	Lamp	1	DAYTON ELECTRIC	PURCHASED					
	11	"	1	" "						
	12	" Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	13	" "	—							
	14	Number Plate	1	542A5009					54-6	
	15	" " Stud	1	A-12969	BAR STOCK					
	16	Builder's Card	2	542A82					54-169	
	17	Name Plate	2	B-11138			54-4			
	18	Patent Plate	1	542A5006					54-183	
	19	Property Plate	—							
	20	Superheater Patent Plate	—							
	21	Electrical Equipment	1 SET	54 M.O. 5004			—	—	—	—
	22									
	23									
	24	GROUP 55—INJECTORS & FEED, WATER								
	25	Injectors	2	#8½ SELLERS GLASS N			—	—	—	—
	26	" Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	27									
	28									
	29									
	30	Injector Check Valve	2	2" SWING FOR 200# - PURCHASED			—	—	—	—
	31	" " Flange	—							
	32	" Stop Valve	2	552E5010	PURCHASED		—	—	—	—
	33	Feed Pipe Strainer	—							
	34	" " Bracket	2	552A5005			—	55-92	—	—
	35	" " " Cap	2	"			—	55-94	—	—
	36	" Pipe Hanger	—							
	37	" Hose Connection	4	553A5001			—	—	55-69	
	38	" " " Nuts	4	"			55-68		—	
	39	" " " "	4	"			—		55-70	
	40	" " " Nipples	—							
	41									
	42									
	43									
	44	GROUP 57—LAGGING & JACKET								
	45	Lagging (Boiler)	1 SET	57 M.O. 5008			—	—	—	—
	46	" Panel								
	47	" "								
	48	" "								
	49	" Angle Iron								
	50	" " "								
	51	Jacket (Boiler)	1 SET	PAINTED STEEL	#22 B.W.G.		—	—	—	—
	52	" Band	—							
	53	" " Angle	4	57B5000		57B5000				—
	54	" Clamp	48	570D46						57-28
	55	" "	6	572A5004		572A5004				—
	56	Plug Casing	7	572A6						57-4
	57	" "	—							
	58	" ~~Cover~~ PRESSURE PLATE FRAME	1	4200476			—	—	57-60	—
	59	Cylinder Lagging								
	60	" Jacket								
	61	" Hood								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
	1	Link	3	583 A 5001		—	—	58-7	—	—
	2	" —Top Half	—							
	3	" —Bottom Half	—							
	4	" Saddle	3	583 A 5001		81 F 15				
	5	" " Bolts	3	8511 Set 12		—				
	6	" " "	3	"		—				
	7	" Block	3	582 A 5015		Fin. Sizes 2" x 2 5/8 x 3 3/4				
	8	" " Pin	3	8512 Set 3		—				
	9	" " Plates	6	582 A 5015	C.R. Steel	—				
	10	" " Ends	—							
	11	" Hanger	3	582 A 5025		81-F-16	—	—	—	—
	12	" " Pin	3	8513 Set 1		—	—	—	—	—
	13									
	14	GROUP 59—OIL CUPS & LUBRICATION								
	15	Lubricator	1	Nathan 5 Feed Purchased 1918 Type						
	16	" Bracket	1	To Suit Erect. Shop		To Suit Erect. Shop				
	17									
	18	Bottom Bracket Oil Cup	4	592 A 5006		—	59-48	—	—	—
	19	" " " " Cap	4	"		—	59-49	—	—	—
	20	" " " " Nut								
	21	" " " " Plug								
	22	" " " " Cover								
	23	" " " " "								
	24	" " " " Hinge Lugs								
	25	" " " " " "								
	26	" " Grease Cup	4	592 A 5007		—	59-50	—	—	—
	27	" " " " Cap	—							
	28	" " " " Nut	4	592 A 5007		—	59-51			
	29	" " " " Plug	4	"		—	59-52			
	30	Crosshead Oil Cup	3	#1 Powell Plain Steel Shank 1/4" P. Thd.		—	—			
	31	" " " Cap								
	32	" " " Nut								
	33	Ecc. Strap Oil Cup								
	34	" " " " Cap								
	35	" " " " Nut								
	36	Gear Oil Cups								
	37	" " " Covers								
	38	Guide ~~Oil~~ Grease Cup	6	#3 Powell Plain Steel Shank 1/2" P. Thd.						
	39	" " " Cap								
	40	" " " Nut								
	41	Link Oil Cup								
	42	" " " Cap								
	43	" " " Nut								
	44	Packing Oil Cup	3	592 A 5005		—	—	—	59-44	—
	45	" " " Cap	3	"		—	—	—	59-45	—
	46	" " " Nut								
	47	Rod Oil Cup								
	48	" " " Cap								
	49	" " " Plug	3	592 A 5025		—	59-355	—	—	—
	50	" " " Latch								
	51	" " " Spring								
	52	" " " Base								
	53	Tumb. Shaft Oil Cup								
	54	" " " " Cap								
	55	" " " " Nut								
	56	Truck Box Oil Cup Cover—R. Box	6	To Suit Truck Shop	Plate	—	—	—	—	—
	57	" " " " " —L. Box								
	58	" " " " " Hinge Plate								
	59	Valve Stem Oil Cup								
	60	Oil Can Shelf	1	592 A 5004		—	59-120	—	—	—
	61	" " " Bracket	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 60—OIL BURNER, ENGINE ONLY								
	1	Oil Burner								
	2	" " Arrangement								
	3	" " Support								
	4	" " Turret								
	5	" Cock Rod								
	6	" " " Jaw								
	7	" " " "								
	8	" " Shaft								
	9	" " " Arm								
	10	" " " Hanger								
	11	" " " Collar								
	12	" Pipe Support								
	13	" " "								
	14	" " Clamp								
	15	" " "								
	16	" Heater Support								
	17	" " Clamp								
	18	" Regulator Bracket								
	19	" " Shaft								
	20	" " " Arm								
	21	" " " Hanger								
	22	" " " Collar								
	23	" " " "								
	24	" " Quadrant								
	25	" " Lever								
	26	" " Latch								
	27	" " " Handle								
	28	" " " Spring								
	29	" " " Link								
	30	" " " Guide								
	31	" " " Pin								
	32	" " Lever Dowel								
	33	" " " Stop								
	34	" " " Thumb Nuts								
	35	" " " Adjusting Screw								
	36	" Damper Regulator Quadrant								
	37	" " " Handle								
	38	" " " Shaft								
	39	" " " " Bushing								
	40	" " " " Arm								
	41	" Heater								
	42	" " Stuffing Box								
	43	" " " " Follower								
	44	" " " " Nut								
	45									
	46									
	47									
	48									
	49									
	50	GROUP 61—PAINT'G, LETTER'G, NUM'G								
	51	Lettering								
	52	Numbering								
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOWS								
	1	PILOT								
	2	Pilot Band								
	3	" Bottom Plate								
	4	" Corner Iron								
	5	" Brace								
	6	" "								
	7	" "								
	8	" "								
	9	" " Rod								
	10	" Knee								
	11	" "								
	12									
	13									
	14	Snow Plow	—							
	15									
	16									
	17	GROUP 63—PIPE FITTINGS								
	18	Air Gauge Fitting	—							
	19	" Pump Oil Fitting	1 SET	7138	STICK BRASS	—	—	—	—	—
	20	" " " " Nut								
	21	" " " " Swivel								
	22	" " Exhaust Wye								
	23	" " Tee								
	24									
	25									
	26	Blower Fitting	1	632A5004		—	—	—	63-6	—
	27	" " Nut	—							
	28	Brake Release Check	1	13523	STICK BRASS	—	—	—	—	—
	29	" " " Valve	1	"	" "	—	—	—	—	—
	30	Brake Ex. Fitting								
	31	" " " Nut								
	32	Coal Sprinkler Fitting								
	33	" " " Nut								
	34	" " " Swivel								
	35	Cylinder Oil Pipe Fitting	3 SET	632A5005	STICK BRASS	—	—	—	—	—
	36	" " " " Nut	3	"	" "	—	—	—	—	—
	37	" " " " "	—							
	38	" " " " Swivel	3	632A5005	BRAZING METAL	—	—	—	—	—
	39	" " " Bracket								
	40	Angle Valve Nut								
	41	" " Swivel								
	42	Through Valve Nut								
	43	" " Swivel								
	44	Oil Cock Nut								
	45	" " Swivel								
	46	Lubricator Check								
	47	Steam Brake Oil Fitting	1 SET	7138	STICK BRASS	—	—	—	—	—
	48	" " " " Nut	—							
	49									
	50	Check Pipe Union								
	51	" " " Nut								
	52	" " " Swivel								
	53	Oil Pipe Union								
	54	" " " Nut								
	55	" " " Swivel								
	56	Steam Pipe Union								
	57	" " " Nut								
	58	" " " Swivel								
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
	1	Pipe Clamp								
	2	" "								
	3	" "								
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14	**GROUP 64—PIPING ARRANGEMENTS**								
	15	Piping Arr'g. General								
	16	" " Air Brake								
	17	" " Cooling Pipes								
	18	" " Bet. Eng. and Tender								
	19	" " Oil Heater								
	20	" " Sprinkler								
	21	" " Steam Heat								
	22									
	23									
	24									
	25									
	26	**GROUP 65—PISTON AND ROD**								
	27	PISTON HEAD	3	652A5134			65-100			
	28	" Packing Rings, Material For	6	653H5000	Pot Pattern		65-7			
	29	" Rod	3	652A5015		FIN. SIZES 30 3/4" x 2 7/16 DIA.				
	30									
	31									
	32									
	33	PISTON ROD PACKING	18	652M5017	Pot Pattern 65-391					
	34	Packing Rings	9 SET	7719 SET 2	BABBITT 6 SET FOR EQUIPMENT.					
	35	" Spring Washer	3	7759 " 3			65-44			
	36	" Swab Cap	3	652B5091					65-26	
	37	" ~~Follower~~ " Lock	3	652C5012						
	38	" Stuffing Box	3	652B5055			65-41			
	39	" " " Gland	3	652B5059			65-42			
	40	" Vibrating Cups	3	652A5081			65-43			
	41	" Spring	3	#13						
	42									
	43									
	44	PACKING STUDS Piston Rod	12	7758 SET 4						
	45	**GROUP 66—PLUGS**								
	46	Arch Tube Plug								
	47	Back Head Plug (Prime)	3	1 7/8" x 11 1/2 THD'S. TAPER 3/4" IN 12" PURCHASED.						
	48	Crown Plug								
	49	Ecc. Strap Plug								
	50	Firebox Plug (Prime)	4	1 7/8" x 11 1/2 THD'S. TAPER 3/4" IN 12" PURCHASED.						
	51	" "								
	52	Fusible Plug								
	53	Indicator Plug								
	54	Smoke Box Plug								
	55	Tube Sheet Plug								
	56	Test Plug								
	57	Waist Plug (Prime)	5	1 7/8" x 11 1/2" THD'S. TAPER 3/4" IN 12" PURCHASED.						
	58	Washout Plug Valve								
	59	" " " Cap								
	60	" " Flange								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 68—REVERSE LEVER								
	1	Reverse Lever	1	—		83 F 120	—	—	—	—
	2	" " Arrangement	1	8370 LINE 3						
	3	" " Handle	1	D-1315 LINE 3		—			68-3	
	4	" " Latch	1	3294		83 F 49				
	5	" " " Guide	1	"		1¼" x 2" x 3½"				
	6	" " " Rod	1	"		83 F 109				
	7	" " " ~~Details~~ STEM GUIDE	1	"		FIN SIZES 15/16" 3¼ x 1" x 2				
	8	" " Quadrant	1	8370		83 F 107				
	9	" " "	1	"		83 F 108				
	10	" " " Plate	1	682 A 5027	PLATE	—	—	—	—	—
	11	" " Foot Rest	—							
	12	" " Shaft	1	682 A 5009		682 A 5009	—	—	—	—
	13	" " " Length	—	14" CTR. TO CTR.		—	—	—	—	—
	14	" " Arm								
	15	" " Fulcrum								
	16	" " " Bracket								
	17	" " " Pin								
	18	" " Shaft Stand	1	8370 LINE 1		83 F 160				
	19	" " Quadrant Bracket	1			68 A 5015				
	20	" " " "	1			109 F 280				
	21	" " " "								
	22									
	23									
	24									
	25									
	26	GROUP 69—REVERSE SHAFT								
	27	TUMBLING SHAFT	1	692 B 5019	ANGLE A = 1 3/4°	692 B 5019	—	—	—	—
	28	" " Arm	—							
	29	" " Collar	—							
	30	" " Box	3	8215 SET 4			69-10			
	31	" " " Cap	3	"			69-9			
	32	" " Coupling Ball	2	8316 SET 2			69-2			
	33	" " " Socket	2	"			69-3			
	34	" " " Cap	2	"			69-3			
	35	" " " Sleeve	1	"		FIN. SIZES				
	36	" " " Conn.	1 PAIR	"		1½" HEX. 3½" LONG 1½" " 8 5/16 " 1½" " 6 3/16 "				
	37	" " " "								
	38	" " " Nut	1	8316 SET 2		1½ HEX. ¾ LONG				
	39									
	40	GROUP 71—RUNNING BOARDS								
	41	RUNNING BOARD	1 SET	717 A 5011	WOOD	—	—	—	—	—
	42	" "								
	43	" " " Bracket ON BOILER	1	712 R 5004		712 R 5004				
	44	" " " " "	1	712 E 5031		712 E 5031				
	45	" " "	1	712 F 5016	PLATE	—				
	46	" " "	1	DRILL TO SUIT E. S.		5/8" x 2½" x 28"				
	47	" " "	1	" " " " "		5/8" x 2½ x 34"				
	48	" " " Engine	7			109 F 297				
	49	" " " "	1	713 A 5017	PLATE					
	50	" " " "	1	713 B 5017	"					
	51	" " " "	1	713 C 5017	"					
	52	" " " "	—							
	53	" " " "	—							
	54	" " " TENDER	1 SET	713 A 5034	WOOD	—	—	—	—	—
	55	" " " Tender	1 R.	A-10929 SET 6 LINE 1						
	56	" " " "	1 L.	" " 6 " 2						
	57	" " " "	2 R.	" " 5 " 1						
	58	" " " "	2 L.	" " 5 " 2						
	59	" PLATE AT GANGWAY	1	3/16" x 14" x 20"	TANK STEEL ROUGHENED.					
	60	" " " "	1	3/16" x 20" x 34"						
	61	" BOARD" BRACKET - TENDER	1	A-16118		71-B-5000				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS								
	1	Connecting Rods	3	8980		89F45	〃	〃	—	〃
	2	" " Brass, Xhd End	3	722A5059		〃	〃	〃	72-29	〃
	3	" " " " "	3	〃		〃	〃	〃	72-29	〃
	4	" " " Crank "	3	722A5023		〃	〃	〃	72-62	〃
	5	" " " " "	3	〃		〃	〃	〃	72-62	〃
	6									
	7	Connecting Rod Strap	3	722A5084		722A5084	〃	〃	〃	〃
	8	" " Wedge—Top	3	8980		FIN. SIZES 1½×2¼×3"				
	9	" " " —Bottom	3	〃		FIN. SIZES 2"×3½×4½"				
	10	" " Key—Top	3	〃		89F21				
	11	" " " —Bottom	—							
	12	" " Wedge Liner	3	8980		FIN. SIZES ¼×3½×6¼"	—	—	—	—
	13									
	14									
	15									
	16	**GROUP 73—SAND BOX**								
	17	Sand Box—Front	1	733J5000		—	—	〃	〃	〃
	18	" " Base	1	733A5002		73-113	73-113	〃	〃	〃
	19	" " Top	1	733J5000	PRESSED STEEL	—	—	〃	〃	〃
	20	" " Lid	1	732B5000		73-31	73-31	〃	〃	〃
	21	" " Valve	2	732A5022		73-4	73-4	〃	〃	〃
	22	" " Lever—Short	1	733J5000		73-20	73-20	〃	〃	〃
	23	" " " —Long	1	〃		73A5005	—	〃	〃	〃
	24	" " Rod Handle	1	732A5027		—	73-6	〃	〃	〃
	25	" " Rigging	2	733J5000		¼"×1¼"×17¾"	—	〃	〃	〃
	26	" " Rod	1	⅜" PIPE TO SUIT E.S.		—	—	〃	〃	〃
	27	Air Sander	4	732A5002		—	73-93	— —	—	—
	28	" " Nozzle	4	〃	STICK BRASS	—	—	—	—	—
	29	Sand Box—~~Flue~~ FRONT-LUGS	4	733J5000		—	—	—	—	—
	30	" " ~~Funnel~~ " STUDS	4	〃	⅝" DIA. LENGTH TO SUIT E.S.	—	—	—	—	—
	31	" " Scoop								
	32	SAND BOX—Back	1	732B5032	PLATE	—	—	—	—	—
	33	Back Sand Box Arrangement	—							
	34	" " " Base	2	732A5026		〃	73-5	〃	〃	〃
	35	" " " Top	2	732A5024		〃	73-314	〃	〃	〃
	36	" " " Covers	2	〃		〃	73-12	〃	〃	〃
	37	" " " Valve								
	38	" " " Shaft Hanger								
	39	" " " " " Caps								
	40	" " " Hand Lever								
	41	" " " " " Fulcrum								
	42	" " " " " Rod								
	43	" " " Horiz. Lever								
	44	" " " " " Fulcrum								
	45	" " " " " Guide								
	46	" " " Rod Jaws								
	47	" " " " "								
	48	" " " Shaft								
	49	" " " " Lever								
	50	" " " " "								
	51	" " " Valve Lever								
	52	" " " " Rod								
	53	" " " " "								
	54	" " " " " Conn.								
	55	" " " Rod Bell Crank								
	56	" " " " " " Fulcrum								
	57	" " " Brace	2	—		122F87	—	—	—	—
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS								
	1	COUPLING RING —Front	2	743A5010				74-16	—	
	2	" " Half "	4	743B5010				74-17	—	
	3	" " Bushing "	8	742A5035				—	74-19	
	4	" " Oil Cellar "	8	742A5034			74-18	—	—	
	5	" " —No. 2	2	743C5010				74-21		
	6	" " Half "	4	743D5010				74-22		
	7	" " Bushing "	8	742A5036				—	74-24	
	8	" " Oil Cellar "	8	742A5037			74-23	—	—	
	9	" " —No. 3								
	10	" " Half "								
	11	" " Bushing "								
	12	" " Oil Cellar "								
	13	" " —Rear	2	743A5010				74-16	—	
	14	" " Half "	4	743B5010				74-17	—	
	15	" " Bushing "	8	742A5035				—	74-19	
	16	" " Oil Cellar "	8	742A5034			74-18	—	—	
	17									
	18	CRANK SHAFT	1	745A5010	#54	157F20				
	19	Counterbalance								
	20	" Weight								
	21	" "								
	22	" "								
	23	" Yoke								
	24	" "								
	25	Horn Coupling	1	742B5267		—		74-27		
	26	" "	1	742B5199		—		74-179-A		
	27	" " Key	2	9060 LINE 2		90-F-2		—		
	28									
	29									
	30	LINE SHAFT—Front Truck								
	31	" " —2nd "								
	32	" " —3rd "								
	33	" " —Rear "								
	34	" " Bearings, Outside—Front								
	35	" " " Inside "								
	36	" " " Outside—2nd								
	37	" " " Inside "								
	38	" " " Outside—3rd								
	39	" " " Inside "								
	40	" " " Outside—R'r								
	41	" " " Inside "								
	42	" " " Plate—Front								
	43	" " " " —2nd								
	44	" " " " —3rd								
	45	" " " " —Rear								
	46	" " Collar								
	47	" " "								
	48	" " "								
	49	" " "								
	50	" " "								
	51	" " "								
	52	" " "								
	53	" " "								
	54	" " "								
	55	" " Coupling								
	56	" " "								
	57	" " "								
	58	" " "								
	59	" " "								
	60	" " "								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS (Cont.)								
	1	LINE SHAFT Coupling Key								
	2	" " " "								
	3	" " " "								
	4	" " Collar "								
	5	" " Pinion								
	6	" " "								
	7	" " "								
	8	" " "								
	9	" " Washer								
	10	" " "								
	11	" " "								
	12	" " "								
	13	GEAR RIM								
	14	" " Bolt								
	15	" " Key								
	16	SQUARE SHAFT—Front								
	17	" " —Back								
	18	" " —Center								
	19	" "								
	20	" " Sleeve								
	21	" " "								
	22	" " "								
	23	" " "								
	24									
	25									
	26	GROUP 75—SMOKE BOX AND STACK								
	27	SMOKE BOX ARRANGEMENT								
	28	" " Deflecting Plate								
	29	Deflecting Plate Angle								
	30	Draft Pipe								
	31	" " Hanger								
	32	" " "								
	33	" " "								
	34	" " " Key Bolt								
	35	Netting Frame								
	36	" Ring								
	37	Cinder Pocket								
	38	" Pot Base								
	39	" " Lid								
	40	" " Hand Wheel								
	41	" " Yoke								
	42	Cleaning Hole								
	43	" " Flange								
	44	" " Cover								
	45	Peep " Flange								
	46	" " Cover								
	47	SMOKE BOX Brace—Right								
	48	" " " —Left								
	49	" " " Pad								
	50	" " " Pin								
	51	" " " Washer								
	52	SMOKE BOX FRONT								
	53	" " " Door								
	54	" " " Liner								
	55	" " Door Liner								
	56	" " " Buttons								
	57	" " " Hinge								
	58	" " " "								
	59	" " " " Lug								
	60	" " " " "								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)								
	1	SMOKE STACK (Type)								
	2	Smoke Stack Base								
	3	" " Extension								
	4	" " Top								
	5	" " Cone								
	6	" " " Bracket								
	7	" " " Brace								
	8	" " " "								
	9	" " Cleaning Hole								
	10	" " " " Cap								
	11	" " Hood			To be hinged to stack					
	12	" " Ring								
	13	" " "								
	14	" " " Angle								
	15	" " Saddle,								
	16									
	17									
	18	GROUP 76—SPRINGS								
	19	Truck Bolster Springs								
	20	" Pedestal "								
	21	Drawgear Springs								
	22									
	23									
	24									
	25									
	26	GR'P 78—STE. GAUGE SAF. VAL. & TUR.								
	27	Steam Gauge								
	28									
	29	Safety Valve								
	30	" "								
	31	" " Elbow								
	32	" " Turret								
	33	" " " Bushing								
	34	" " " Ring								
	35	" " " Casing								
	36	" " " Flow-Bowl								
	37	TURRET								
	38	" Ball Joint								
	39	" Stuffing Box								
	40	" " " Nut								
	41	" " " Follower								
	42	" Master Valve								
	43	" " " Nut								
	44	" " " Stem								
	45	" " " Hand Wheel								
	46	" Bonnet Ring								
	47	Turret (Auxiliary)								
	48	GROUP 79—STEAM PIPES & TEE HEADS								
	49	STEAM PIPES								
	50	" " Slip Joint								
	51	" " " " Gland								
	52	" " Elbow								
	53	" " " Support								
	54	" " Tee Head								
	55	" " Joint Ring—Top								
	56	" " " " —Bottom								
	57	" " " "								
	58	" " " " Gland								
	59	" " Casing								
	60	" " Flange								
	61	" " Nipple								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81—SUPERHEATER								
	1	Superheater Arrangement								
	2	" Header								
	3	" " Support								
	4	" " "								
	5	" Return Bends								
	6	" " "								
	7	" Tube End								
	8	" " Joint								
	9	" " Clamp								
	10	" " " Washer								
	11	" " " Bolt								
	12	" " " " Washer								
	13	" " Support								
	14	" " Bands								
	15	" Unit								
	16	" Damper								
	17	" " Cyl.								
	18	" " " Arm								
	19	" " " Support								
	20	" " Arm								
	21	" " Rod								
	22	" " Shaft								
	23	" " "								
	24	" " " Bearing								
	25	" " " "								
	26	" " " "								
	27	" " " "								
	28	" " " Link								
	29	" " Counterweight								
	30	" " " Arm								
	31	" " Hinge								
	32	" " Flag								
	33	" Deflector Handle								
	34	" " Clamp								
	35	" " Plate Stud								
	36	GROUP 82—TANK VALVES								
	37	TANK Valve—Water								
	38	" " Body								
	39	" " " Plate								
	40	" " Bottom Plate								
	41	" " Top "								
	42	" " Cap								
	43	" " Seat								
	44	" " Stem								
	45	" " " Nut								
	46	" " " Handle								
	47	" " " Clamp Nut								
	48	" " Strainer								
	49	Siphon Arrangement								
	50	Siphon								
	51	" Tube								
	52	" Pipe Flange								
	53	" Goose Neck								
	54	" Stand Pipe								
	55	" " " Flange								
	56	" " " "								
	57	" Hose Strainer								
	58	" " " Body								
	59	" " " Cap								
	60	" " Nipple								
	61	" " Bracket								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
	1	Tank Valve—Oil								
	2	" " Seat								
	3	" " Cap Plate								
	4	" " Plate								
	5	" " Rod								
	6	" " Screen								
	7	" " Nut								
	8	" " Flange								
	9	" " Lever								
	10	" " Stem								
	11	" " " End								
	12	" " " Stuffing Box								
	13	" " " " " Nut								
	14	" " " " " Gland								
	15	" " " " " Follower								
	16	" Cock								
	17	" Cooler Cock								
	18	Tank Measuring Rod								
	19	" " " Flange								
	20	" " " Handle								
	21	" " " Guard								
	22	" " " "								
	23									
	24	**GROUP 83—TANK—ENGINE**								
	25	Fuel Bunk								
	26	" " Rack								
	27	" " Tie Rod								
	28	" " Straps								
	29	" " Lugs								
	30	" " Gate								
	31									
	32									
	33	**GROUP 85—TENDER FRAME**								
	34	Tender Frame								
	35	" " Angle								
	36	" " "								
	37	" " "								
	38	" " "								
	39	" " Bolster—Top								
	40	" " " —Bot.								
	41	" " Brace								
	42	" " "								
	43	" " "								
	44	Frame Centre Plate								
	45	" End Casting								
	46	" " Timber Brace								
	47	" Side Bearings								
	48	**GROUP 87—TENDER DECK, TOOL BOX**								
	49	Tool Box								
	50									
	51	**GROUP 88—TENDER TANK**								
	52	Tank—Water								
	53	" Material Bill								
	54	" Funnel								
	55	" " Lid								
	56	" " Hinge								
	57	" " Handle								
	58	" " Hinge Lug								
	59	" " " Pin								
	60	" " Angle								
	61	" Lug								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal Iron
		GROUP 88—TENDER TANK (Cont.)								
	1	Tank—Headlight Bracket								
	2	" —Ladder								
	3	" "								
	4	" —Coal Gate								
	5	" —Fuel Rack								
	6	" —Shoveling Sheet								
	7	" " "								
	8	Tank—Oil								
	9	" Material Bill								
	10	" Funnel								
	11	" " Cover								
	12	" " " Eye Bolts								
	13	" " " Tail Nuts								
	14	" " " Handle								
	15	" " Lug								
	16	" " "								
	17	" " Ring								
	18	" " Angle								
	19	" Lug								
	20	" "								
	21	**GROUP 91—THROTTLE & DRY PIPE**								
	22	Throttle Arrangement								
	23	Throttle Valve								
	24	" Case								
	25	" Valve Stem								
	26	" " " Stop								
	27	" Pipe Elbow								
	28	" Pipe Flange								
	29	" " Joint Ring								
	30	" Bell Crank								
	31	" " " Fulcrum								
	32	" Pipe Support								
	33	" " Yoke								
	34	" " Bracket								
	35	" " "								
	36	" Stuffing Box								
	37	" " " Gland								
	38	" " " Flange								
	39	" Baffle Plate								
	40	" " "								
	41	" " " Handle								
	42	" " " Angle								
	43	" " " Studs								
	44	" " " Nuts								
	45	" " " Keys								
	46	THROTTLE LEVER								
	47	Throttle Lever Handle								
	48	" " Latch								
	49	" " " Rod								
	50	" " Links								
	51	" " Quadrant								
	52	" " Fulcrum								
	53	" " Guide								
	54	" " Rod								
	55	" " Support								
	56	DRY PIPE								
	57	" " Ring								
	58	" " Support								
	59	" " "								
	60	" " Yoke								
	61	" " Elbow								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS								
	1	Brake Shoes								
	2	Chisel—Cape								
	3	" —Flat								
	4	Hammer—Soft			Wood Handle					
	5	Jack Screw								
	6	" " Cap								
	7	" " Base								
	8	" " Collar								
	9	" "								
	10	" " Cap								
	11	" " Base								
	12	" " Collar								
	13	Journal Brass Rod								
	14	Packing Hook								
	15	" Spade								
	16	Pinch Bar								
	17	Jack Bar								
	18	Torch								
	19	" Cap								
	20	" Nozzle								
	21	Valve Tram								
	22	Wrench List								
	23	Ash Hoe								
	24	" " Handle								
	25	Clinker Hook								
	26	Poker								
	27	Wrecking Frogs								
	28	Grease								
	29	Oil								
	30	GROUP 93—TRUCKS & DETAILS								
	31	TRUCK Plan								
	32	" Bolster								
	33	" " End Casting—R.								
	34	" " " " —L.								
	35	" " " Separator								
	36	" " Spring Centers								
	37	" "								
	38	" "								
	39	" " Brake Rod Roller								
	40	" " " " " Brkt.								
	41	" " " Lever Guide								
	42	" " " " "								
	43	" Center Plate								
	44	" Side Bearing Base								
	45	" " " Block								
	46	" Frame								
	47	" "								
	48	" " Splice								
	49	" " "								
	50	" Right Arch Bar								
	51	" Left Arch Bar								
	52	" Right Inverted Arch Bar								
	53	" Left Inverted Arch Bar								
	54	" Bottom Tie Bar								
	55	" " " "								
	56	" " " " Angle								
	57	" " " " "								
	58	" " " Fill. Block								
	59	" Column—Right								
	60	" " —Left								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 93—TRUCKS & DETAILS (Cont.)								
	1	Truck Crosstie Bar—Top								
	2	" " " "								
	3	" " " " Angles								
	4	" " " " "								
	5	" " " —Bottom								
	6	" " " "								
	7	" " " " Fill Block								
	8	" " " —Center								
	9	" " " "								
	10	" Diagonal Braces								
	11	" " "								
	12	" " "								
	13	" " "								
	14	" Equalizer								
	15	" Gear Cover								
	16	" " "								
	17	" " "								
	18	" " "								
	19	" " " Bracket								
	20	" " " "								
	21	" " " "								
	22	" " " "								
	23	"								
	24	" King Bolt								
	25	" " " Key								
	26	" Safety Chain—To Frame								
	27	" " " " "								
	28									
	29									
	30									
	31	TRUCK BOX—Right								
	32	" " "								
	33	" " "								
	34	" " "								
	35	" " Cap—Right								
	36	" " " "								
	37	" " " "								
	38	" " " "								
	39	" Pedestal								
	40	" " Cap								
	41	" " " Shim								
	42	" " " "								
	43	" " " "								
	44	" " " "								
	45	" Box—Inside								
	46	" " Cap—Inside								
	47	" Inside Box Spring Center								
	48	" " Thrust Plate								
	49	" Journal Brass								
	50	" " " Wedge								
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 94—VALVES—DISTRIBUTION								
	1	Piston Valve								
	2	" " Follower								
	3	" " T-Ring								
	4	" " Snap Ring								
	5	Slide Valve								
	6	" " Plate								
	7	" " Packing Strip								
	8	" " " "								
	9	" " Ring—Mat'l For			Pot Pattern					
	10	" " Spring								
	11									
	12									
	13	VALVE STEM								
	14	" " Crosshead								
	15	" " " Guide								
	16	" " " " Plate								
	17	" " " Gibs								
	18									
	19	VALVE YOKE								
	20	" " Block								
	21	" " Key								
	22	VALVE STEM PACKING								
	23	Packing Rings								
	24	" Spring Washer								
	25	" Swab Cup								
	26	" Vibrating Cup								
	27	" Follower								
	28	" Stuffing Box								
	29	" " " Gland								
	30	" Spring								
	31	" Studs, Valve Stem								
	32									
	33	GROUP 95—WHEELS AND TIRES								
	34	Wheel								
	35	Tire								
	36	Hub Plate								
	37									
	38									
	39	GROUP 96—WHISTLE AND RIGGING								
	40	WHISTLE								
	41	" Bowl								
	42	" Bell								
	43	" Valve								
	44	" Gland								
	45	" Nut								
	46	" Diaphragm								
	47	" Lever								
	48	" Elbow								
	49	" Rigging								
	50	WHISTLE Hand Lever								
	51	" " " Fulcrum								
	52	" Rod								
	53	" Bell Crank								
	54	" Rod Thimble								
	55	" " " Washer								
	56									
	57	GROUP 99—MISCELLANEOUS								
	58	SPEED RECORDER RIGGING								
	59									
	60									
	61									

CLASSIFICATION OF DRAWINGS
GEARED LOCOMOTIVE

Group No.	TITLE
10	Ash Pan and Oil Pan
11	Axles
12	Bell and Ringer Blow-off Cock—See 26 Blower Pipe Elbow—See 63
13	Boilers
14	Boiler Details and Attachments—Tubes and Flues. Boiler Checks—See 55
15	Bolts and Nuts, Studs, Pins and Bushings Boxes, Shay Engines—See 93
18	Brackets, Air and Steam Gauge Brackets, Shay Cylinder, Steam and Cylinder Bottom Brackets
20	Brake Equipment, Foundation, All Brake Equipment, Engine and Tender Brick Arch—See 45
21	Bumpers and Details By-pass Valve—See 34
22	Cabs
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc. Cab Handle—See 53 Cab Lamp—See 54 Cab Tool Box—See 23 Cab Turret—See 78 Chafing Plate—See 48 Cinder Valve and Pipe—See 75 Clearances—See 98 Coal Pusher—See 88
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves
27	Cocks and Valves, Gauge, Water and Special
28	Cock Rigging Connecting Rods—See 72 Coupler, Engine—See 37 Coupler, Tender—See 37
29	Crank Pins and Details
30	Crossheads, Arm, Pin, Key and Shoes Crossties—See 48
31	Cylinders and Barrel Bushings
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings
34	Cylinder By-pass, Relief, Vacuum and Drifting Valves
35	Die Work—Flanging Dies
36	Dome—Cap, Casing and Ring
37	Draw-Gear, Engine, Coupler, Uncoupling Rigging Front Buffers, Drawbars, Safety Chains and Bars All Drawgears F and B Drawgear, Tender—See 37 Draft Pipe—See 75 Dry Pipe—See 91
39	Eccentrics, Cranks, Straps and Rods Engine Truck—See 93
42	Erecting Cards—Elevations
43	Erecting Cards—Cross Sections
44	Exhaust Pipe and Nozzles Expansion Pad, Knee and Plate—See 48 Feed Water Attachments—See 55
45	Fire Door, Fire Brick and Tubes, Smoke Consumer Fire Box Ring—See 14 Fire Extinguisher—See 64
48	Frames and Details
49	Gauges, Templates and Jigs
50	Guides, Yoke and End
51	Grate Arrangement
52	Grate Details Hand Holes—See 66
53	Hand Rail and Steps, Engine and Tender
54	Headlights and Signal Attachments, Lamps, Electric Wiring, Builders License and Number Plates
55	Injectors, Boiler Checks and Strainers Keys—See 15

Group No.	TITLE
57	Lagging and Jacket Lamps—See 54
58	Link Motion Mud Drum—See 14 Number Plates—See 54
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator
60	Oil Burning Attachments—Engine Oil Burning Attachments, Tender—See 82
61	Painting, Lettering and Numbering—Photo
62	Pilot and Snow Plows
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings
64	Piping Arrangements, Engine and Tender, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping
65	Piston and Rod, Extensions, Rod Packing
66	Plugs, Hand Holes and Washout Push Pole Pocket—See 21
68	Reverse Lever, Screw and Pneumatic Gears
69	Reverse Shaft and Reach Rod
70	Rocker and Box
71	Running Boards & Brackets, Side and Deck Sheets
72	Rods—Connecting and Stubs Safety Valves—See 78
73	Sand Box, Sanders and Rigging Side Sheet, Cab—See 71 Signal Attachments—See 54
74	Shafts—Crank, Line, Square, Crank, Counterbalance, Couplings, Brasses, Pinions, Gears, etc.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces Smoke Consumer—See 45 Speed Recorder—See 99
76	Springs Sprinkler—See 64 Steam Chests—See 32
78	Steam Gauge, Safety Valve and Turrets Steam Heat—See 64
79	Steam Pipes and Tee Heads Steps—See 53
80	Stoker and Details, Engine and Tender
81	Superheater, Header and Details Superheater Flues—See 14
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose
85	Tender Frames
87	Tender Deck, Tool Box
88	Tender Tank—Water and Oil, Filling Hole, Tank Funnel, Coal Gate, Coal Pusher Tender Truck—Shay Engines—See 93
91	Throttle and Dry Pipe—Lever, Supports, Sleeves Tires—See 95 Tool Boxes, Engine—See 23 Tool Boxes, Tender—See 87
92	Tools
93	Trucks and Details, Shay Engine, including Boxes and Bearings Tube Setting—See 14 Turret, Safety Valve—See 78 Turret, Air—See 20
94	Valves, Distribution—Stems, Rods, Valve Rod Crosshead and Packing Valve Rod Crosshead Guide—See 94 Waist Sheets—See 48
95	Wheels and Tires—Driving Engine, Truck, Trailing, Tender Wheels
96	Whistle and Rigging
97	Preliminary Designs and Propositions
98	Clearance and Wheel Base Diagrams
99	Miscellaneous

Material Specifications